

STATE OF IDAHO
DEPARTMENT OF WATER RESOURCES
BENEFICIAL USE FIELD REPORT

A. GENERAL INFORMATION

Permit No: 96-10637
Exam Date: 09/22/2022

1. Current Owner:
MARTHA ASHFORD PO BOX 610 PONDERAY ID 83852-0610
2. Accompanied by: Martha Ashford
Phone No: 208-263-8473
Address: Same as above
Relationship to permit Holder: Permit holder.

3. SOURCE:
GROUND WATER

Method of Determination: ArcMap and DRG.

B. OVERLAP REVIEW

1. Other water rights with the same place of use: YES Overlap

Water Right No.	Source	Purpose of Use	Basis
96-7011	Lake Pend Oreille	Domestic	Notice of Claim filed on License in CFPRBA (as municipal use)
96-8953	Lake Pend Oreille	Municipal	Notice of Claim filed on License in CFPRBA
96-8584	Lake Pend Oreille	Irrigation	Notice of Claim filed on License in CFPRBA
96-8584-A	Lake Pend Oreille	Irrigation	Notice of Claim filed on License in CFPRBA
96-10636	Groundwater	Domestic	Notice of Claim filed in CFPRBA

Comments: Licensed WRs 96-7011 & 96-8953 both have claims filed by the original owners, Oden Water Assn, which uses Lake Pend Oreille as their water source for Domestic/Municipal uses. Oden Water Assn is a municipal provider with a service area that overlaps this applicant's parcel & irrigation POU. The applicant is not served water by the municipal provider negating any concern for overlap between water rights.

Licensed WR 96-8584 have two claims (ref suffix "A" above) that have been filed in the CFPRBA Clark Fork Pend Oreille River Basin Adjudication (CFPRBA) process. The backfile for the License has adequate map products which illustrate the POU for 96-8584 covers two parcels to the east of the applicant's parcel. When licensed, 96-8584's irrigation POU was designated with a generic 40-ac bulk POU but is not a concern for overlap between the license with subsequent claims & this permit. The applicant does not have access to the surface water irrigation system and has not irrigated the parcel with lake water since it was developed after 1984.

The applicant has submitted a beneficial use claim in the CFPRBA for domestic use from a separate groundwater well located on the property used for domestic use for the residence. The claim indicates a shared well with neighbors to the east of the property (Hughes). As this claim proposes a separate beneficial use and separate water system than this permit, there is no concern for overlap and I'm not recommending condition X35 or 928 be assigned to the permit for license approval.

2. Other water rights with the same point-of-diversion: NO Overlap

C. DIVERSION AND DELIVERY SYSTEM

1. LOCATION OF POINT(S) OF DIVERSION:

GROUND WATER SE¼ NW¼, Sec. 4, Twp 57N, Rge 01W, B.M. BONNER County

Method of Determination: GPS. POD is located at -116°27.1361, 48°19.2013 (+/- 16 ft)

PLACE OF USE: IRRIGATION

Twp	Rng	Sec	NE				NW				SW				SE				Totals
			NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	NE	NW	SW	SE	
57N	01W	4								2.5									2.5

Total Acres: 2.5

Method of Determination: Beneficial use field examination & ArcMap aerial imagery.

3.

Delivery System Diagram Attached (required). Indicate all major components and distances between components.

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Indicate weir size/pipe as applicable.

Map Attached Showing Location(s) of point(s) of diversion and place(s) of use (required). Scale must be 1:24,000 or greater.

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Aerial Photo Attached (required for irrigation of 10+ acres).

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Photo of Diversion and System Attached

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4.

Well or Diversion ID No.*	Motor Make	Hp	Motor Serial No.	Pump Make	Pump Serial No. or Discharge Size
96-94-N-177	CENTRIPRO	3	Unknown	GOULDS	Unknown

D. FLOW MEASUREMENTS

1.

Measurement Equipment	Type	Make	Model No.	Serial No.	Size	Calib. Date
5-GAL BUCKET MEASUREMENT						

2. Measurements: Three 5-gallon bucket measurements were completed from a frost-free hydrant co-located with the well, with the average of three resulting in a diversion rate of 11.23 gpm = **0.03 cfs**, considering department rounding standards.

E. FLOW CALCULATIONS

Measured Method: 5-GAL Bucket Test = (5 gal / 26.1 sec) x 60 sec/min = 11.5 gpm
 = (5 gal / 27.0 sec) x 60 sec/min = 11.1 gpm
 = (5 gal / 26.4 sec) x 60 sec/min = 11.4 gpm

Average of 3ea 5-GAL Bucket Tests = (11.5 gpm + 11.1 gpm + 11.4 gpm) / 3 = 11.23 gpm = 0.03 cfs considering department rounding standards.

F. VOLUME CALCULATIONS

1. Volume Calculations for irrigation:

$$V_{IR} = (\text{Acres Irrigated}) \times (\text{Irrigation Requirement}) = 2.5 \text{ acres} \times 3.0 \text{ afa} = 7.5 \text{ af.}$$

$$V_{DR} = [\text{Diversion Rate (cfs)}] \times (\text{Days in Irrigation season}) \times 1.9835 = 0.03 \text{ cfs} \times 214 \text{ days} \times 1.9835 = 12.7 \text{ af}$$

$$V = \text{Smaller of } V_{IR} \text{ and } V_{DR} = \mathbf{7.5 \text{ af}}$$

2. Volume Calculations for Other Uses: None.

G. NARRATIVE/REMARKS/COMMENTS

Field exam performed on 9/22/2022 with the applicant, Martha Ashford, showed water being diverted from a groundwater well for irrigation uses. At the POD, well 96-94-N-177 has a Centripro 3.0 HP pump motor with Gould's submersible pump installed in the well. There is no D-Tag on the well, and the well centroid is found within the NE¼NW¼, Gov Lot 6 (center mass 40-acre tract), Section 4, Twp 57N, Rge 01W. The well centroid is not accurate in the database.

Three 5-gallon bucket flow measurements were taken from a frost-free hydrant co-located with the well, with the average of three resulting in a diversion rate of 0.03 cfs, considering department rounding standards. Based on the observed irrigation acreage, 0.05 cfs is authorized by the Department but the applicant is limited by pump performance to **0.03 cfs**, as determined during the exam toward recommending the maximum diversion rate for licensing this right. The applicant's well driller report illustrates a production rate of 11 gpm at time of well construction, which supports the 11.23 gpm flow rate measured from the well during the field exam.

The irrigation POU was walked with the applicant and sketched out on field maps during the exam. Two main hose lines run South from the well with hose splitters installed at intervals to provide lateral hose to tripod sprinkler watering of lawn, landscape, garden, fenced pasture areas, and tree canopy areas which are both mowed and irrigated. I observed active irrigation at the furthest extent of the POU, and while difficult to use aerial imagery to confirm due to tree canopy obstruction, photographs were taken to provide additional support documentation of the irrigation practices. During licensing review, I used ArcMap aerial imagery to accurately trace out the POU conferring with field maps, resulting in 2.5 acres irrigation. The annual volume and maximum diversion volume recommended for licensing purposes equals 2.5 ac x 3.0 afa = **7.5 af**.

Condition 046 was removed from the permit during licensing review. All other conditions on the permit shall be carried forward to licensing. Evaluation of overlapping WRs detailed on PG1 above result in no overlap concerns for licensing purposes of Permit 96-10637.

Have conditions of permit approval been met? X Yes No

H. RECOMMENDATIONS**1. Recommended Amounts**

<u>Beneficial Use</u>	<u>Period of Use</u>	<u>Rate of Diversion</u>	<u>Annual Volume</u>
IRRIGATION	04/01 to 10/31	0.03 CFS	7.5 AF

Totals: 0.03 CFS 7.5 AF

2. Recommended Amendments

 Change P.D. as reflected above Add P.D. as reflected above X None

 Change P.U. as reflected above Add P.U. as reflected above X None

I. AUTHENTICATION

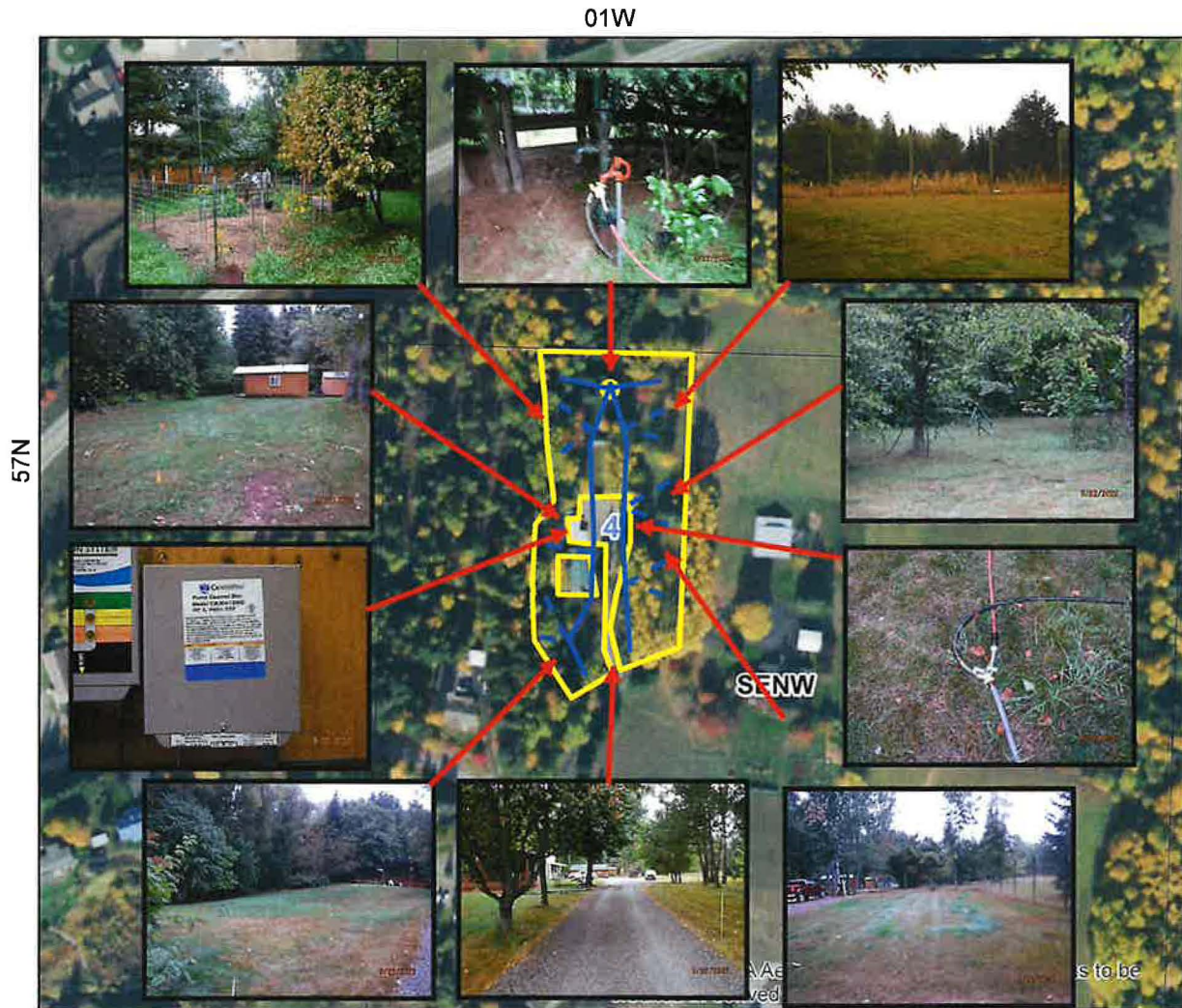
Luke Bates -

Field Examiner's Name *JDB* Date 11/30/2023

Reviewer *Chris Bell* Date 5/24/24

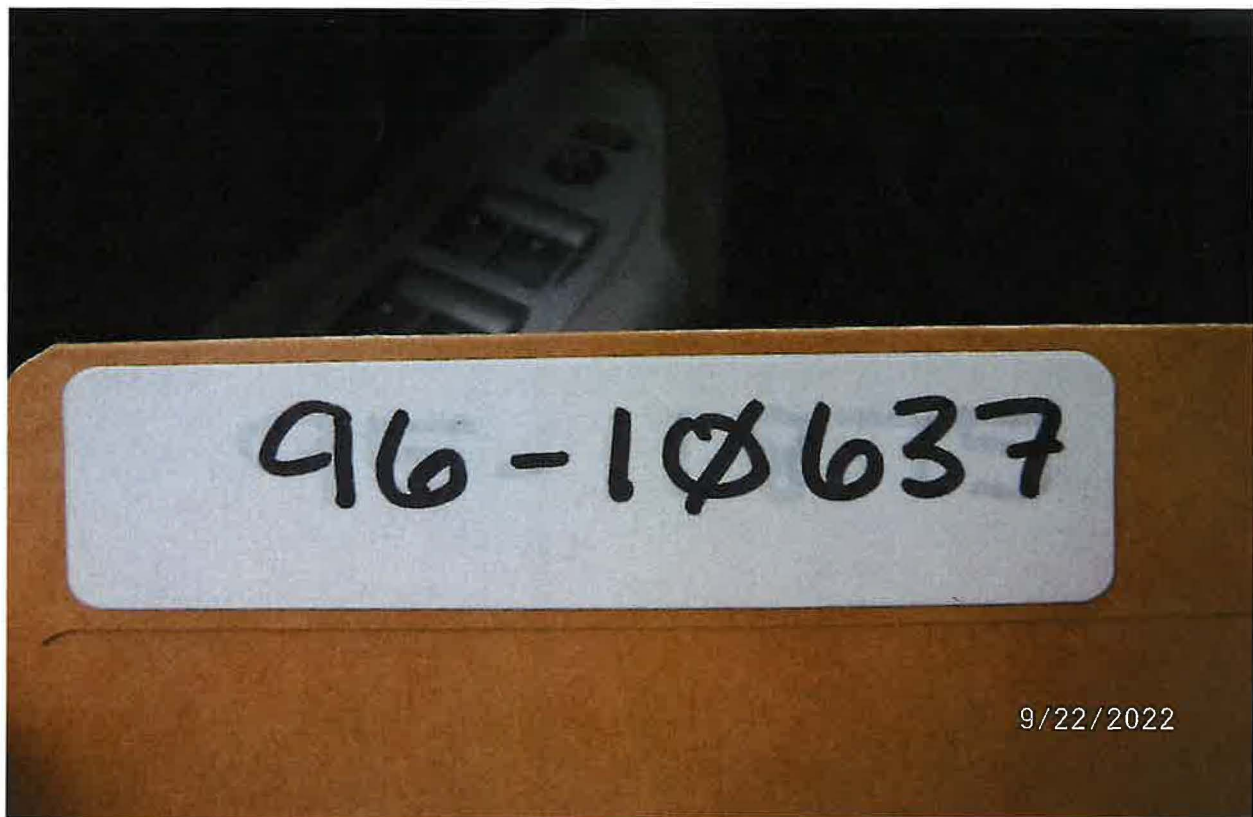
State of Idaho
Department of Water Resources
Attachment to Field Exam
96-10637

This map depicts the IRRIGATION system diagram.

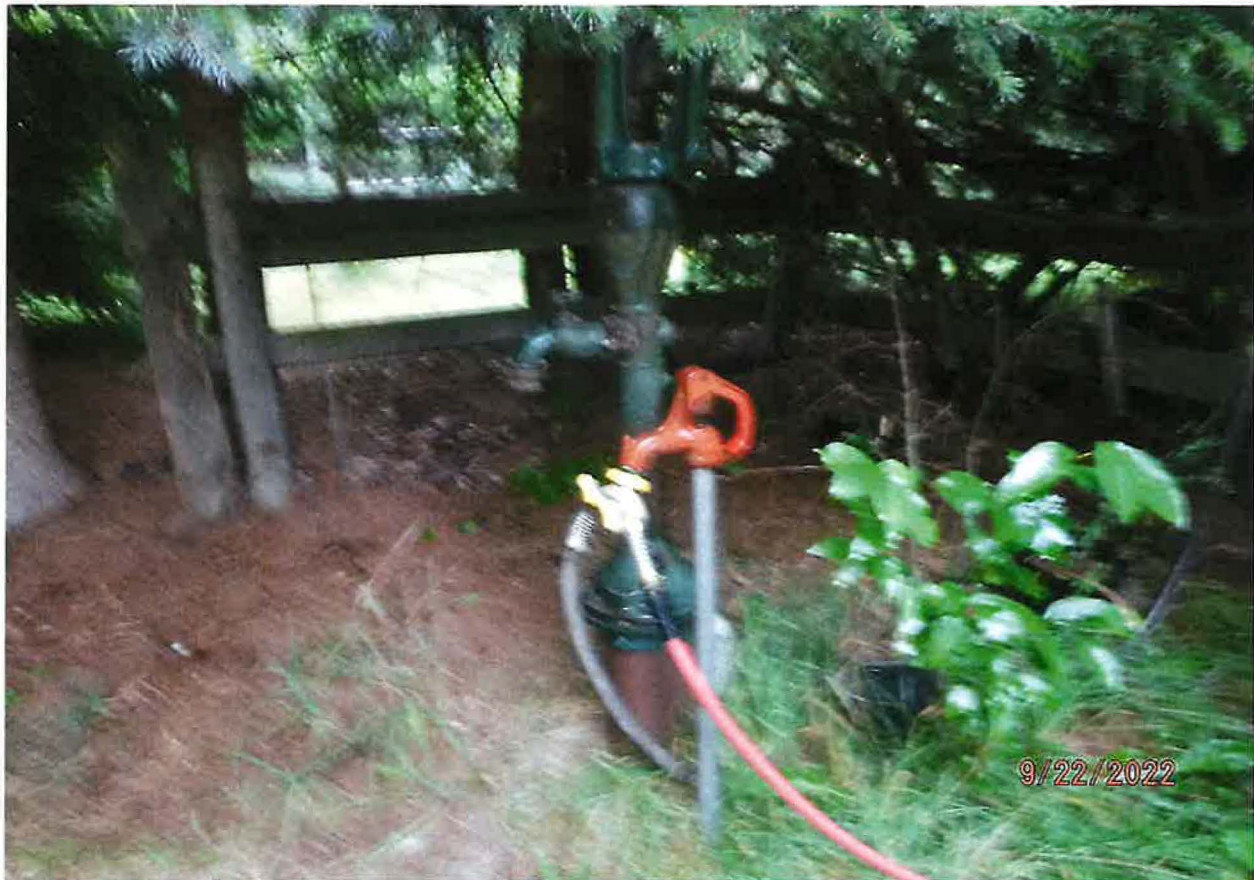


-  Place Of Use Boundary
-  Townships
-  PLS Sections
-  Quarter Quarters
-  Point of Diversion

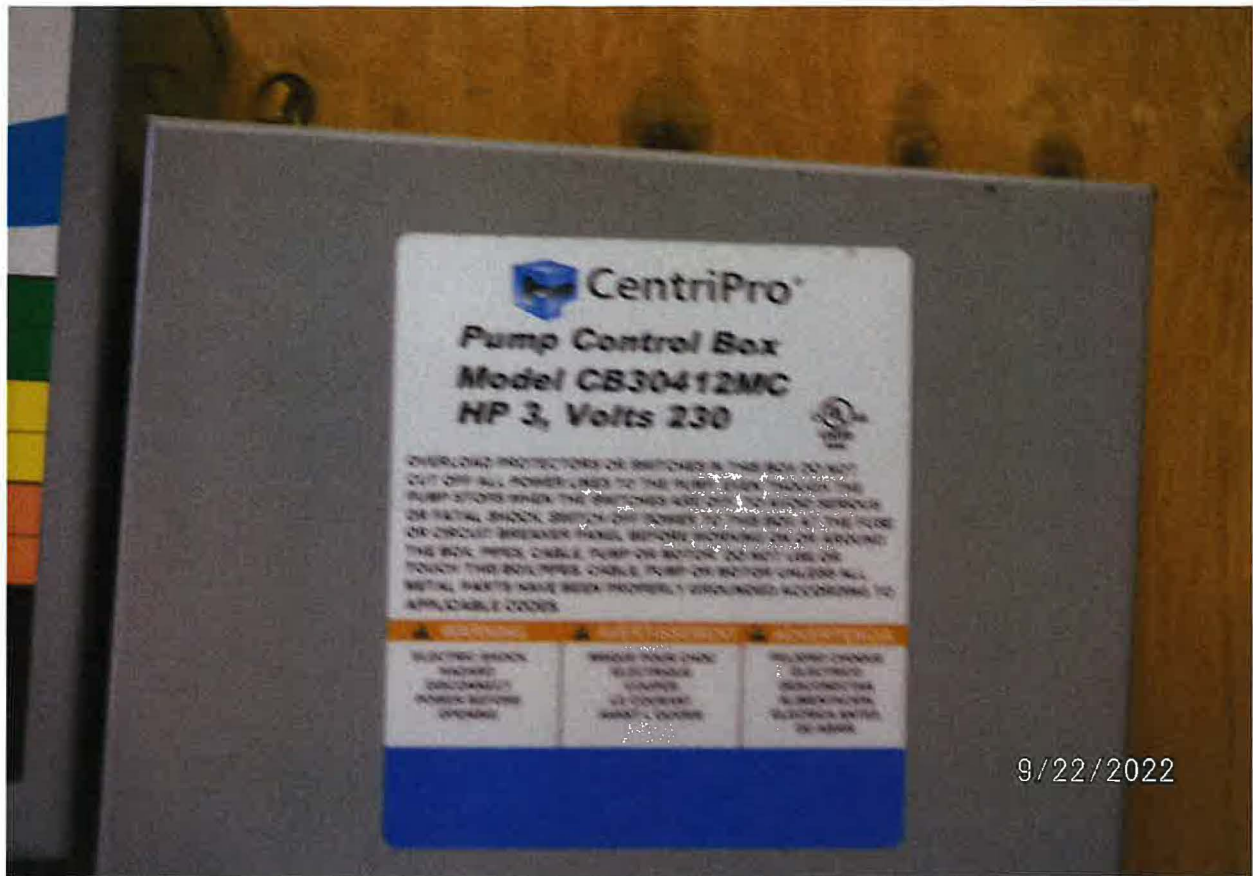




BENEFICIAL USE FIELD EXAMINATION DATE 9/22/2022



POD – WELL 96-94-N-177, NO D-TAG ATTACHED TO WELL



3 HP PUMP MOTOR INSTALLED IN WELL



IRRIGATION SYSTEM INCORPORATES TWO LONG RUNS OF GARDEN HOSE WITH SPLITTERS AT 100 FT INTERVALS & HOSE TO TRIPOD SPRINKLERS FOR USE



IRRIGATION POU





IRRIGATION POU





IRRIGATION POU





IRRIGATION POU





IRRIGATION POU





IRRIGATION POU

